Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

- 1. Cancelled
- 2. (Currently Amended) A magnetoresistive head comprising a magnetoresistive layer which converts magnetic signals to electric signals, a pair of electrodes for allowing an electrically sensing current to flow across said magnetoresistive layer, upper and under gap layers placed over and beneath said pair of electrodes and said magnetoresistive layer, and upper and under shield layers, one of which is placed over said upper gap layer and the other is placed beneath said under gap layer, wherein at least either of said upper and under gap layers is made of varistor material.

3-4. Cancelled

5. (Previously Presented) The magnetoresistive head according to claim 2, wherein said magnetoresistive head employs a material consisting of ZnO, SiC, BaTiO, Si, or SrTiO films or films whose main element is one of these substances as said varistor material.

6-7. Cancelled

8. (Currently Amended) The magnetoresistive head according to claim 2, wherein said magnetoresistive head employs a material which exhibits varistor characteristics and is a multi layered structure made up of A1203, SiO2, Ta205, Bi205, MnO, NiO, CoO, Fe-O, TiO2, HfO2, ZrO2, or Nb205 films or oxide films whose main element is one of these substances in combination with films selected from among ZnO, SiC, BaTiO, Si, and SrTiO films as the above varistor material.

9. Cancelled

10. (Currently Amended) The A magnetoresistive head according to claim 7,

comprising a magnetoresistive layer which converts

magnetic signals to electric signals, a pair of electrodes for

allowing an electrically sensing current to flow across said

magnetoresistive layer, upper and under gap layers placed over

and beneath said pair of electrodes and said magnetoresistive

layer, and upper and under shield layers, one of which is

placed over said upper gap layer and the other is placed

beneath said under gap layer, wherein said pair of electrodes

and at least either of said upper and under shield layers are

electrically connected by varistor material that also interconnects said pair of electrodes;

wherein said magnetoresistive head employs a material which exhibits varistor characteristics and is multi layered structure made up of A1203, SiO2, Ta205, Bi205, MnO, NiO, CoO, Fe-O, TiO2, HfO2, ZrO2, or Nb205 films or oxide films whose main element is one of these substances in combination with films selected from among ZnO, SiC, BaTiO, Si, and SrTiO films as the above varistor material; and

wherein said material is formed in a multi-layer wherein the thickness of a film made of A1203, SiO2, Ta205, Bi205, MnO, NiO, CoO, Fe-O, TiO2, HfO2, ZrO2, or Nb205 or an oxide film whose main element is one of these substances is 5 nm or less.

11. (Currently Amended) The—A magnetoresistive head comprising a magnetoresistive layer which converts magnetic signals to electric signals, a pair of electrodes for allowing an electrically sensing current to flow across said magnetoresistive layer, upper and under gap layers placed over and beneath said pair of electrodes and said magnetoresistive layer, and upper and under shield layers, one of which placed over said upper gap layer and the other placed beneath said

7 of 13

under gap layer, wherein at least either of said upper and under gap layers is made of varistor material;

wherein said magnetoresistive head employs a material which exhibits varistor characteristics and is multi layered structure made up of A1203, SiO2, Ta205, Bi205, MnO, NiO, CoO, Fe-O, TiO2, HfO2, ZrO2, or Nb205 films or oxide films whose main element is one of these substances in combination with films selected from among ZnO, SiC, BaTiO, Si, and SrTiO films as the above varistor material; and

The a magnetoresistive head according to claim 8, wherein said material is formed in a multi-layer wherein the thickness of a film made of A1203, SiO2, Ta205, Bi205, MnO, NiO, CoO, Fe-O, TiO2, HfO2, ZrO2, or Nb205 or an oxide film whose main element is one of these substances is 5 nm or less.

according to claim 9, comprising a magnetoresistive layer which converts magnetic signals to electric signals, a pair of electrodes for allowing an electrically sensing current to flow across said magnetoresistive layer, upper and under gap layers placed over and beneath said pair of electrodes and said magnetoresistive layer, and upper and under shield layers, one of which is placed over said upper gap layer and the other is placed beneath said under gap layer, wherein

leads of said upper and under shield layers and leads extended out of lead terminals of said electrodes are connected by varistor material on the side where a magnetoresistive element does not exist, when viewed from the lead terminals of said pair of electrodes;

wherein said magnetoresistive head employs a material which exhibits varistor characteristics and is multi layered structure made up of A1203, SiO2, Ta205, Bi205, MnO, NiO, CoO, Fe-O, TiO2, HfO2, ZrO2, or Nb205 films or oxide films whose main element is one of these substances in combination with films selected from among ZnO, SiC, BaTiO, Si, and SrTiO films as the above varistor material; and

wherein said material is formed in a multi-layer wherein the thickness of a film made of Al203, SiO2, Ta205, Bi205, MnO, NiO, CoO, Fe-O, TiO2, HfO2, ZrO2, or Nb205 or an oxide film whose main element is one of these substances is 5 nm or less.

13. Cancelled

14. (Previously Presented) A magnetic head assembly comprising the magnetoresistive head according to claim 2 in combination with an inductive thin-film head.

15-16. Cancelled

9 of 13

17. (Previously Presented) A magnetic read/write device with the magnetic head assembly according to claim 14 installed thereon.

18. Cancelled